

# **JCS/DoD SE Roles & Responsibilities Description**

- Who is in charge of the capability architecture?
- Who is the user?
- There is no taxonomy, no data elements
- Roadmaps are incomplete to effectively derive acquisition requirements

# **JCS/DoD SE Roles & Responsibilities**

## **Impact**

- Define what are the joint dependencies
- Help PMs and SEs know where program boundaries are, therefore helps with program scope and requirements definition.
- Allows translation of joint capabilities into operational requirements
- Individual Services would morph into a common process

# **JCS/DoD SE Roles & Responsibilities Solutions**

- Use SE process as the enabler
- Define a clear decision process to implement the results of the JCS FCB
  - Requires Joint Capability Area Review w/ AT&L, FCB, functional experts from Services
  - AT&L/NII perform systems analysis/ architecture definition/cost estimate
  - Capability Mgr established at AT&L/NII to lead PPBE interaction
  - Services execute product development

# JCS/DoD SE Roles & Responsibilities Solution (cont.)

<i><b>Org</b></i>	<i><b>Activity</b></i>	<i><b>Players</b></i>	<i><b>Changes</b></i>
<b>JCS</b>	<b>Capability Identification</b>	<b>FCB</b>	
<b>AT&amp;L/NII</b>	<b>Jt Capab Area Rvw to clarify/ buy in</b>	<b>FCB AT&amp;L/NII Services</b>	<b>SE Process</b>
<b>AT&amp;L/NII</b>	<b>Analysis/Arch Def/Cost Est (SE Process)</b>	<b>AT&amp;L/NII (lead) JCS Services</b>	<b>SE Process, Arch Definition, Cost Est</b>
<b>Capab Mgr (new)</b>	<b>Integration based on analysis/arch</b>	<b>AT&amp;L/NII Services</b>	<b>\$\$, Legislative</b>
<b>Services</b>	<b>Product Dev</b>	<b>Services</b>	<b>DoD Funding??</b>

# **JCS/DoD SE Roles & Responsibilities**

## **Barriers**

- Experience in “capability discipline” to execute SE
  - Specialty engineering disciplines not well defined for capability
  - Type of trade studies to perform
- JCS too focused on near term
- Platform centric environment
- Clarity of SE – capabilities definition
- Existing management structure – AT&L/JCS
- Very little experience with SE at capability level
- Industrial base creativity & Service flexibility

# **JCS/DoD SE Roles & Responsibilities**

## **Good/Best Practices**

- Investigating issues - Donna Rhodes, SE Dept MIT
- Use DAG Best Practices (program level but could be applicable)
- SE Best Practices documented in Product Centers – solicit and use
- Use MDA – experience base with BMDS “SoS”

# **JCS/DoD SE Roles & Responsibilities**

## **Short Term Actions/Who?**

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- Formally identify who is in charge
- Formally identify who is the user
- Align AT&L and NII for Sys-of-Sys management

# **JCS/DoD SE Roles & Responsibilities Long Term Actions/Who?**

- Prepare Roadmap as an IMP/IMS
- Establish SE IPT in JCS; composed of experienced Service Sys Eng
- Start with a pilot on a real problem
- Create a SEP for this process
- Establish taxonomy and lexicon